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FIG. 2B

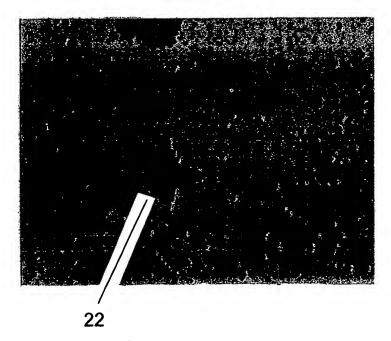


FIG. 2C

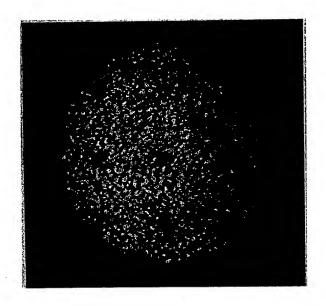
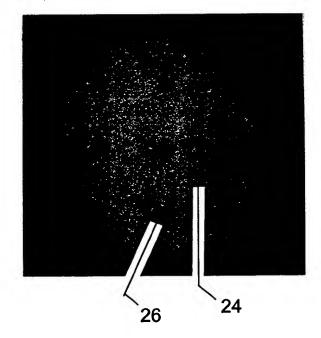
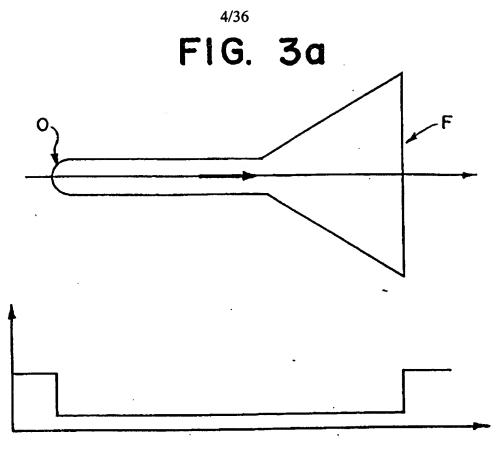


FIG. 2D





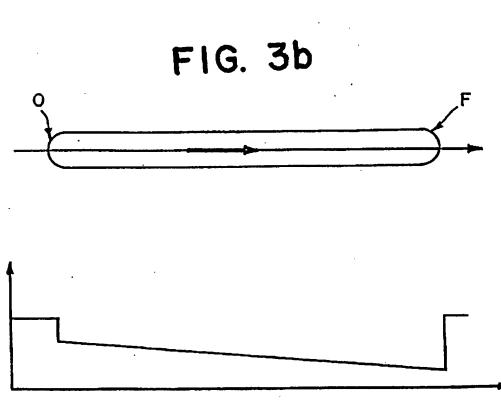


FIG. 3C

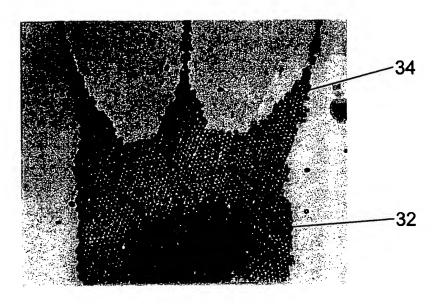


FIG. 3D



FIG. 4A

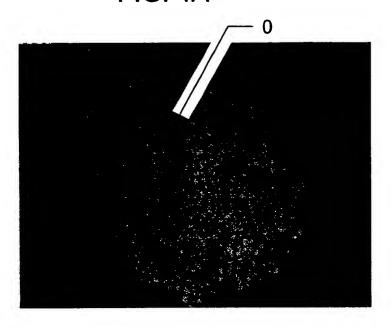


FIG. 4B

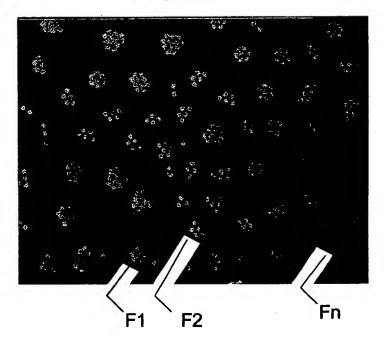
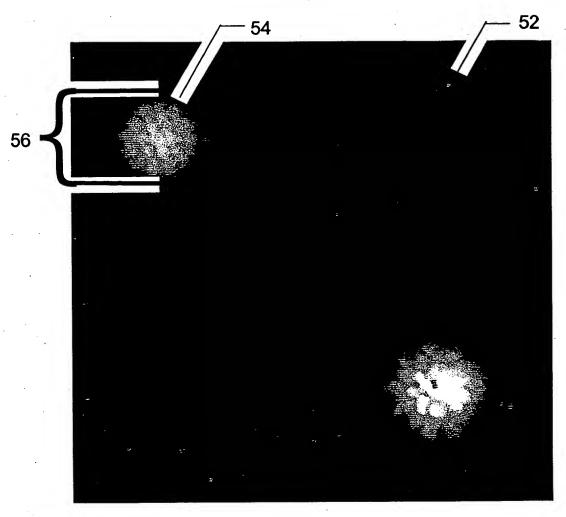


FIG. 5



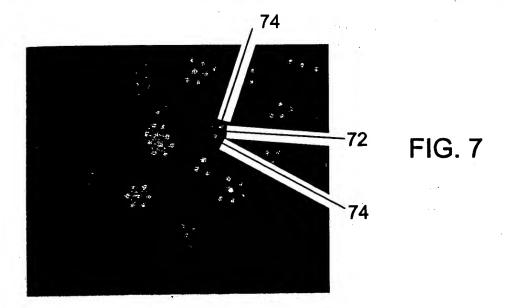


FIG. 6a
62
62
62
64

FIG. 6b

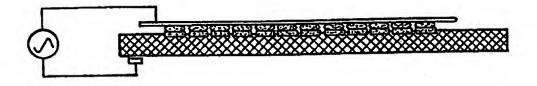
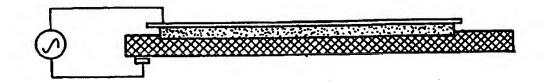


FIG. 6c





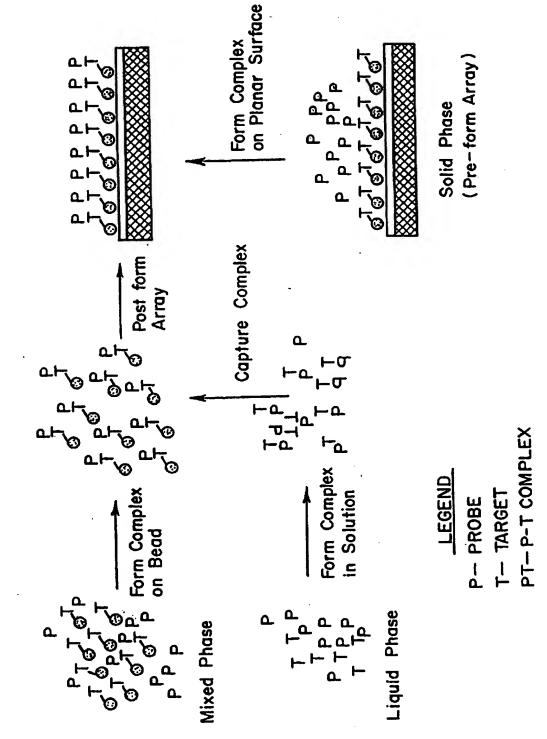


FIG. 9a

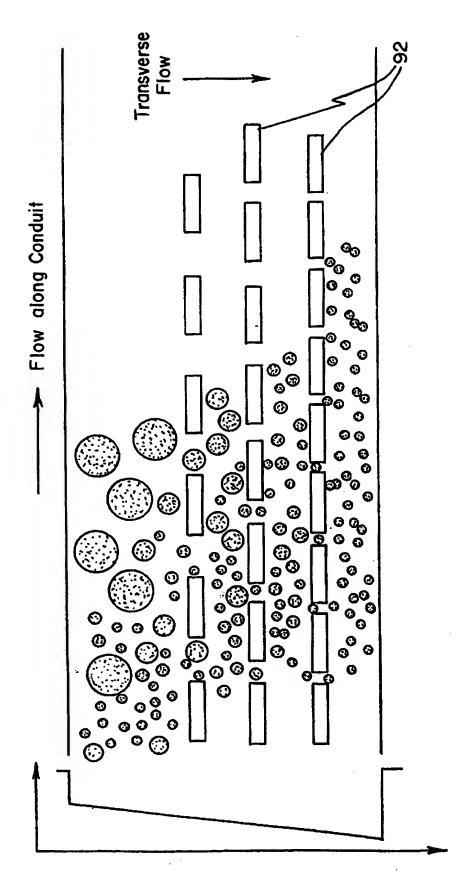


FIG. 9b

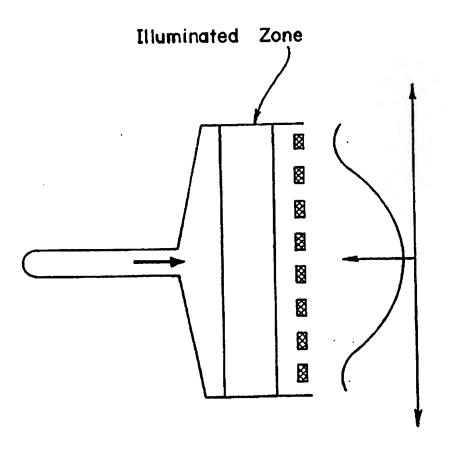


FIG. 9c



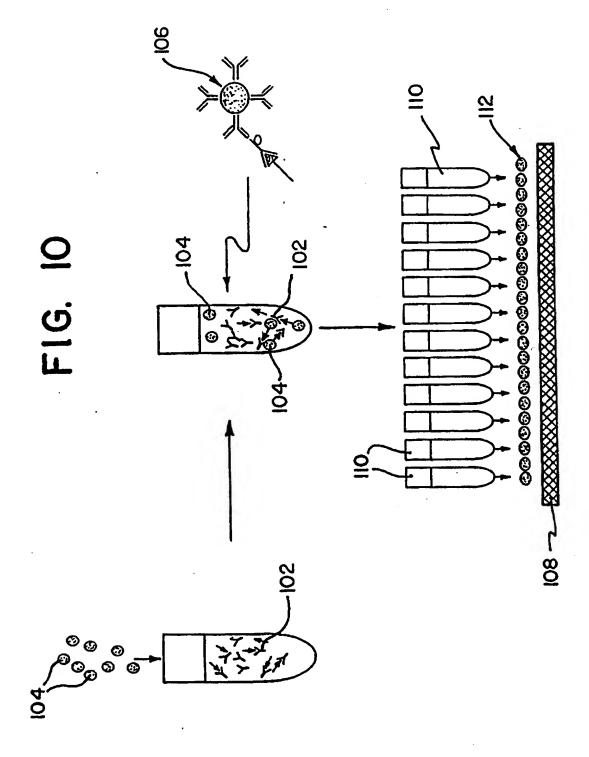


FIG. IIa

FIG. 11b

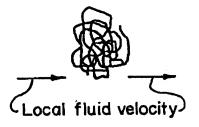
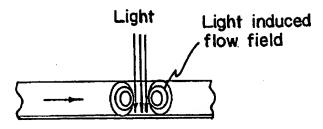
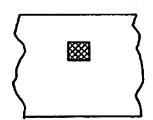
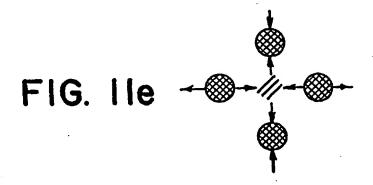


FIG. IIc

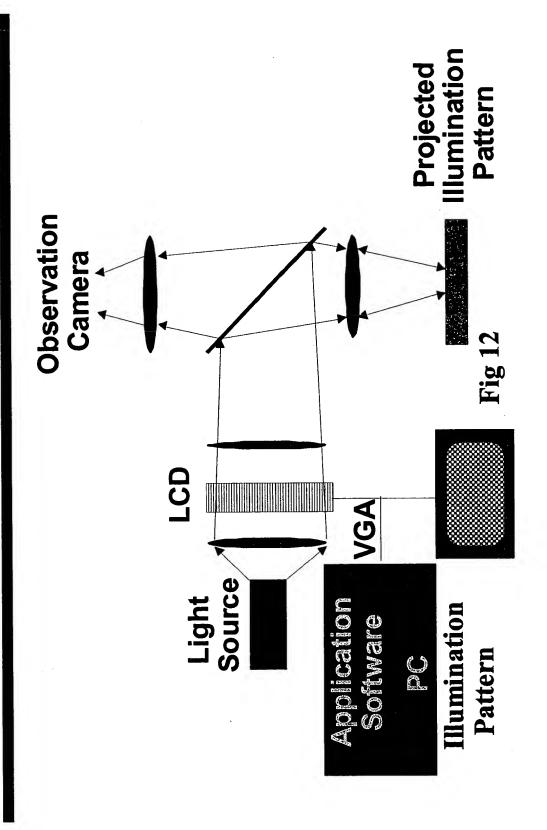
FIG. 11d



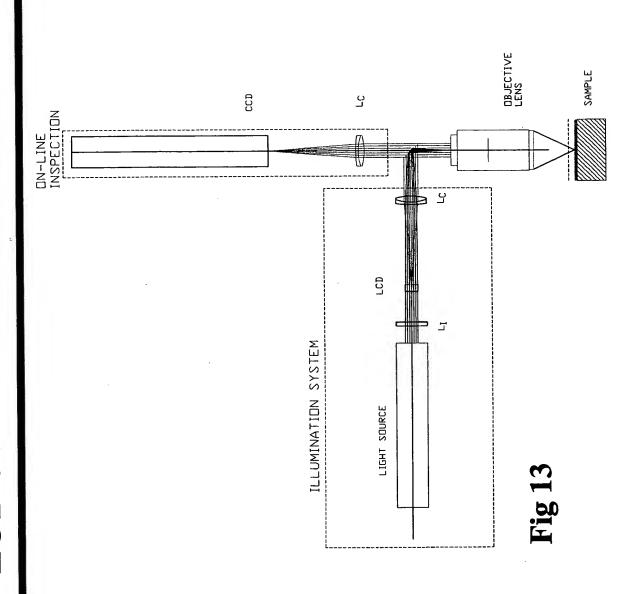




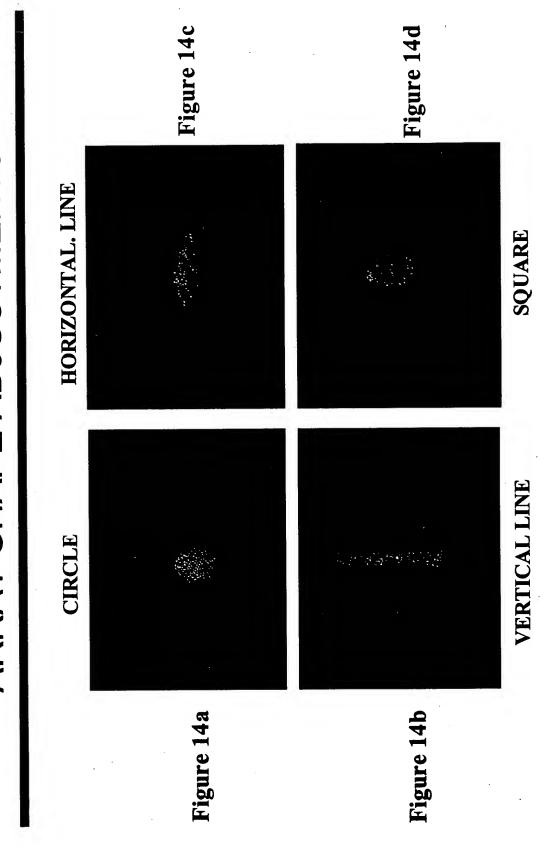
ILLUMINATION PATTERN GENERATOR



LCD-PARSE OPTICAL DESIGN



ARRAY SHAPE ADJUSTMENTS



COLLECTION AND ARRAY ASSEMBLY

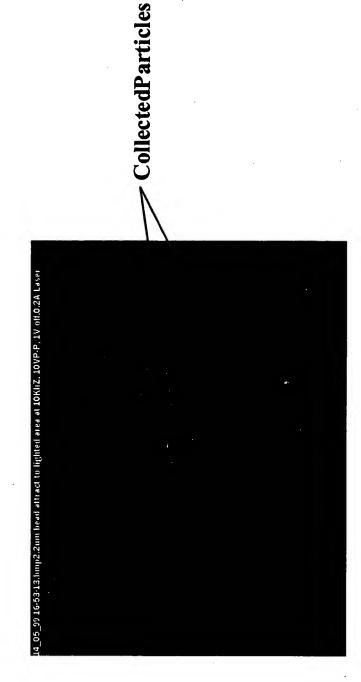


Figure 15a

EXPULSION AND CONFINEMENT

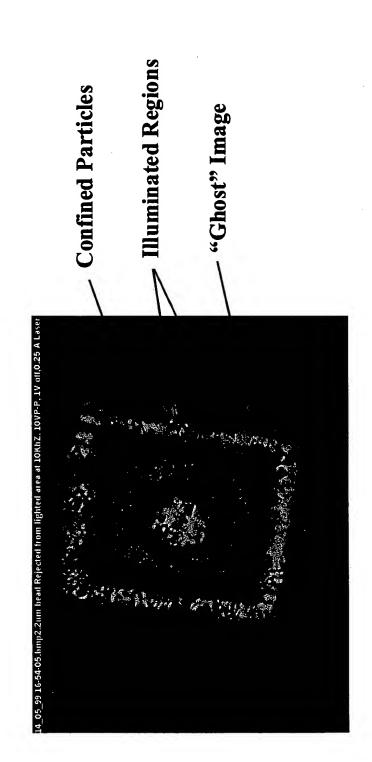


Figure 15b

DRAG AND DROP



Figure 16

Porgrammable Array Reconfiguration and Segmentation

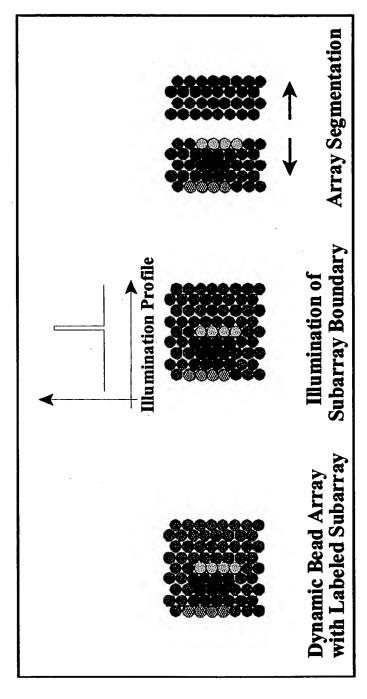


Figure 17

LCD PARSE

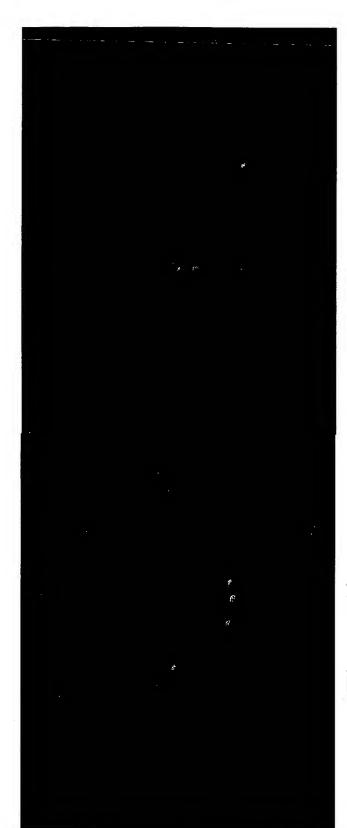


Figure 18b

Figure 18a

LCD PARSE

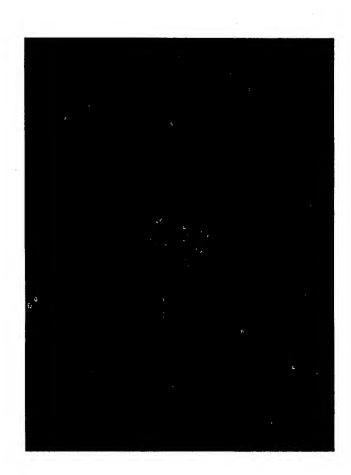
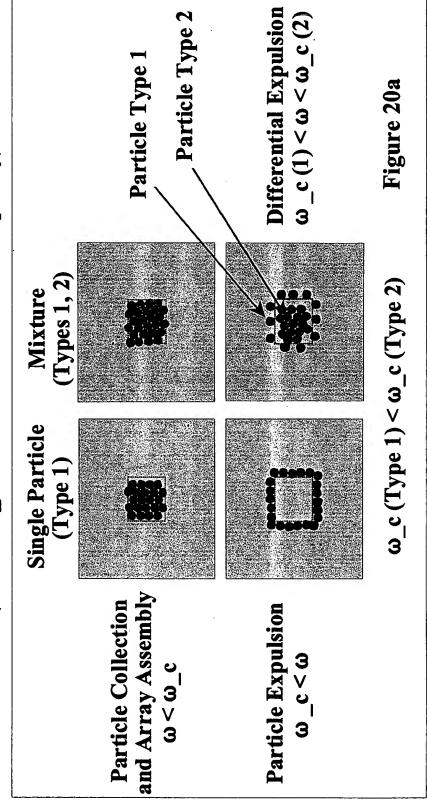


Figure 19

FRACTIONATION

Differential Frequency Dependence of Particle Expulsion (NOTE: ω_c denotes a characeristic frequency)



FRACTIONATION

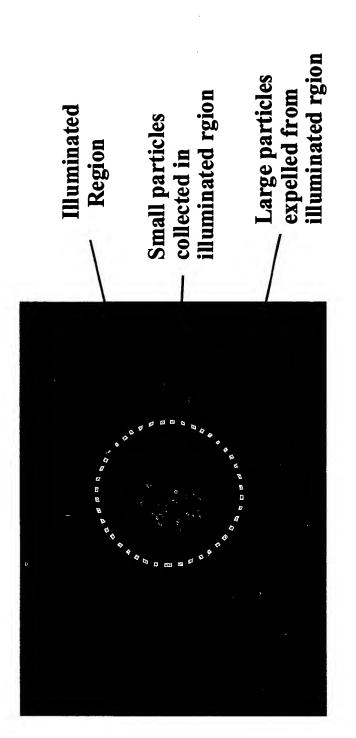


Figure 20b

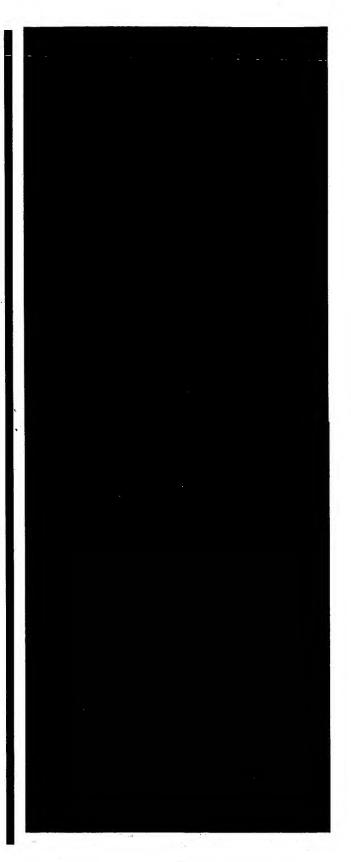


Figure 21b

Figure 21a

Single Sep Carrier Coding

- Optical
- Optical
- Optical
- Ser face 1 she ling (1-100)
- Ser face 1 she ling (7-10)

A. CHEMICAL ENCODING

Multi-Sar

B. SPATIALENCODING

1- Pre-Processing

2- Post-Processing

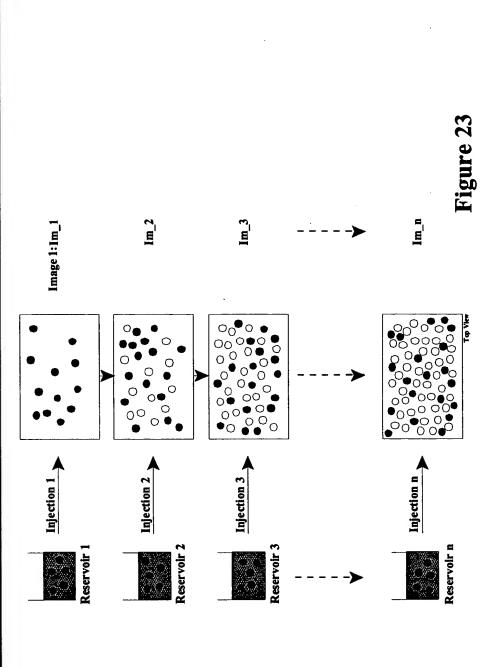
3- Selective
Separation (7-NARSE)
Separation

Figure 22a

The Theology and the Third of t

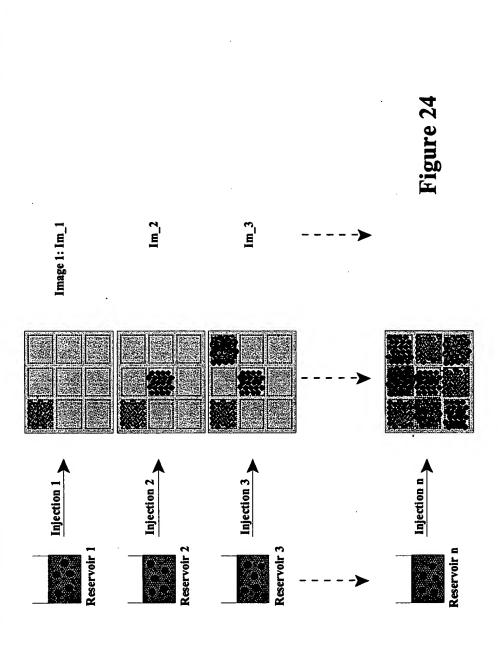
Encoding Methodologies

RANDOM SEQUENTIAL INJECTION



.:

SEQUENTIAL INJECTION & LIGHT-CONTROLLED ARRAY PLACEMENT



MACRO-TO-MICRO TANSITION

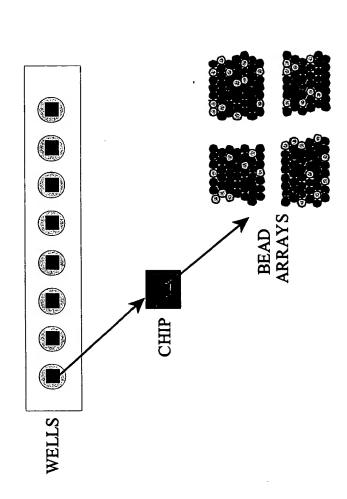
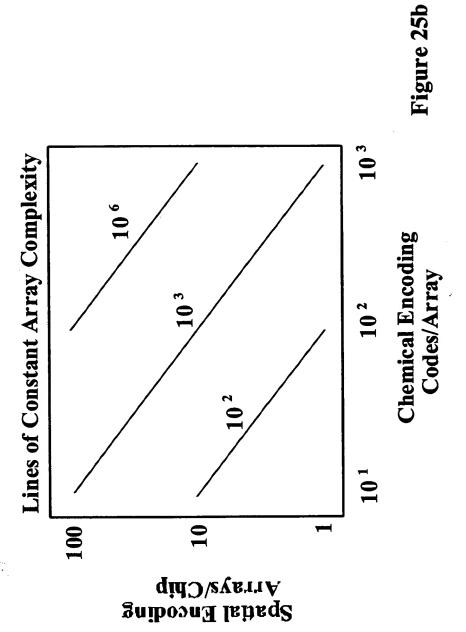
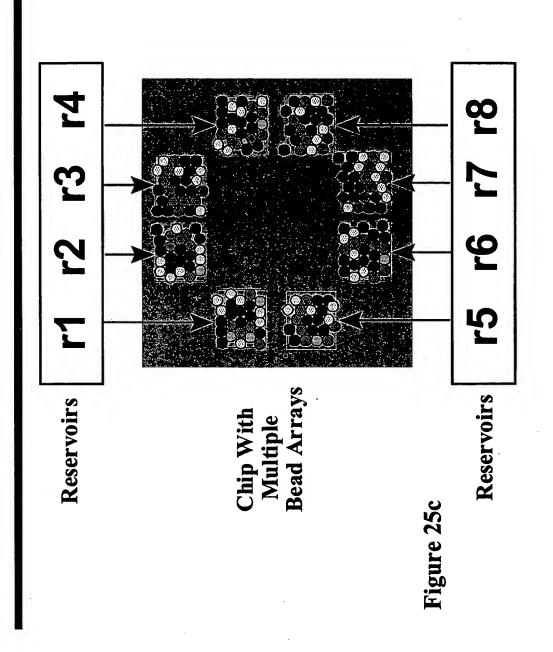


Figure 25a

ARRAY ENCODING



ARRAY ENCODING



SEQUENTIAL ASSEMBLY: "BANDING"

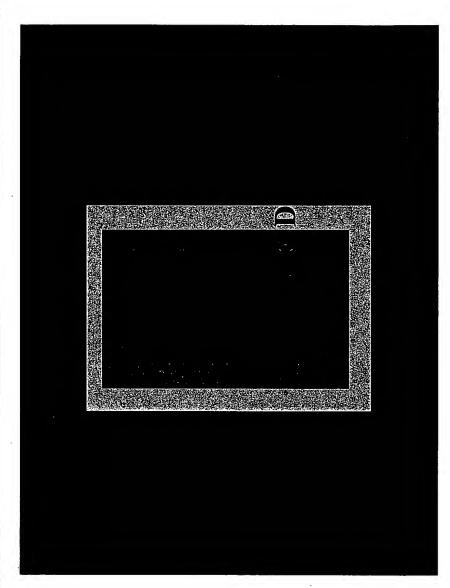
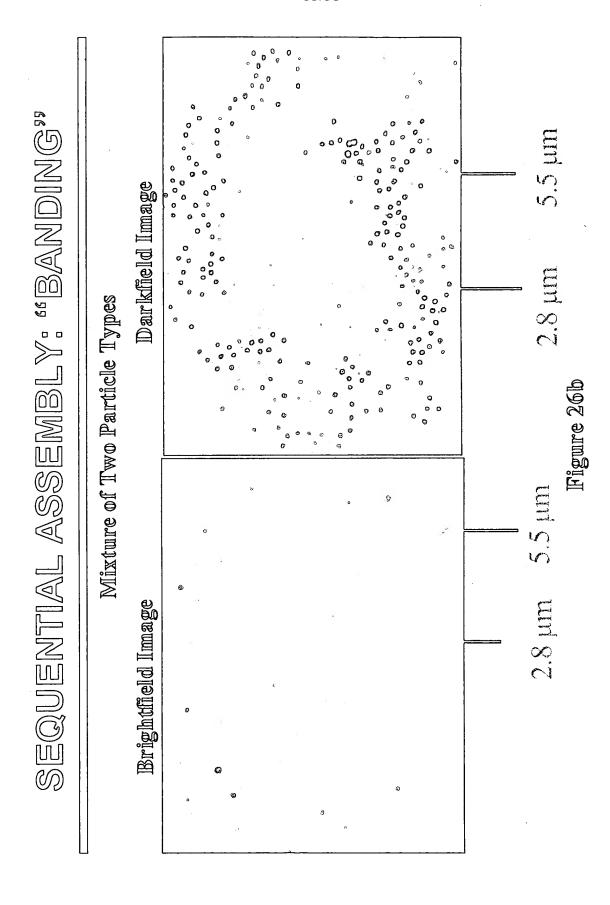


Figure 26a



LCD PARSE

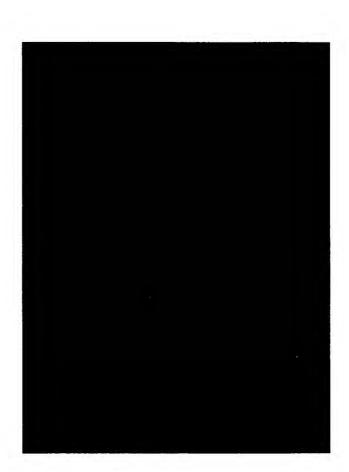


Figure 27

ARRAY OF RANDOM SUBARRAYS

A SHOCK THOUSING ON THOUSE

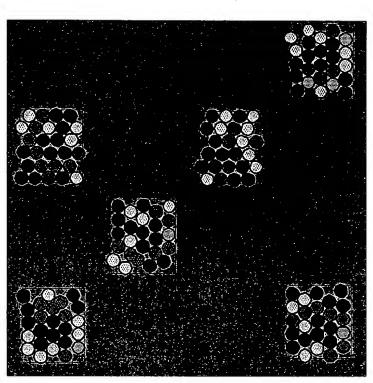


Figure 28

LIGHT-INDUCED FLUID FLOW

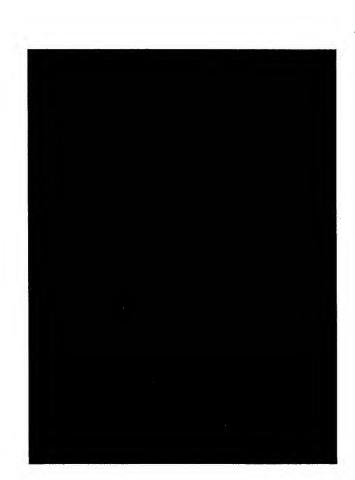


Figure 29